

(a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ

C2 ID NO:1;

(b) isolating an antibody from the animal; and

(c) screening the isolated antibody for specific binding to an amino acid sequence of

SEQ ID NO:1.

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40. (AMENDED) A monoclonal antibody produced by a method comprising:

(a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ

C3 ID NO:1;

(b) isolating an antibody producing cell from the animal;

(c) fusing the isolated cell with an immortalized cell to form a hybridoma cell;

(d) culturing the hydridoma cell; and

(e) isolating from the hydridoma cell culture a monoclonal antibody that specifically binds an amino acid sequence of SEQ ID NO:1.

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Please add new claims 57-59 as follows:

C4 58. (NEW) The antibody of claim 11, wherein the antibody inhibits the transport of phosphate molecules by a polypeptide comprising the amino acid sequence of SEQ ID NO: 1.

59. (NEW) The antibody of claim 11, wherein the polypeptide consists of the amino acid sequence of SEQ ID NO: 1.

60. (NEW) The composition of claim 32, wherein the polypeptide consists of the amino acid sequence of SEQ ID NO: 1.